WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE:	GS
COMPANY:	SOUTHERN CALIF. GAS CO.
WELL:	STANDARD SESNON 11
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	
API NUMBER:	0403700763
SEC:	28
TWN:	3N
RNG:	16W
AJ	

PERMANENT DATUM: GROUND LEVEL ELEV: 2512'
LOG MEASURED FROM KB 7' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2519 Ft.
DF: Ft.
GL: 2512 Ft.

DATE LOG RAN	04-13-2016	PRESSURE		FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI				0
EFFECTIVE DEPTH	9058'	CASING PSI				0
PICKUP DEPTH	8585'	INJECTION RATE		N/A		
BOT LOGGED INT	8585'	OBSERVED RATE		N/A		
TOP LOGGED INT	100'	R/A SOURCE		N/A		
TYPE OF INJECT	NONE	ACTIVITY		N/A		
FLUID IN WELL	GAS	HALF LIFE		N/A		
FLUID LEVEL	920'					
WELL STATUS	STATIC		PRODUCTION DATA			
MAX TEMPERATURE	183.2 F	OIL Gr.		OIL =		
AT DEPTH	8585'	GAS Gr.		GAS=		
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =		
LOGGING SPEED	100 FPM			WATER=		
RECORDED BY	S. MACIAS					
WITNESSED BY	N/A					
EMAIL TO	A. KARGAR					
DEPTH CORRELATION	MANDREL					

Equipment Data

Collar Locator	1.375"		
Temperature Tool	1.375"		
Audio Detector	1.375"		

Remarks/Survey Results

PLEASE NOTE: NOISE TOOL DRAWING TO MUCH CURRENT CAUSING TEMP TO SCRIBBLE.
6:30AM ON LOCATION
7:21AM RAN IN HOLE
9:24AM BEGIN SURVEY
12:41PM PULL OUT OF HOLE
1:00PM OFF LOCATION
SAND TAG MARKERS: 8480' MP
8706' S1
8773' S4
8907' S8
9058' HZ

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	55	SURFACE	824'	2.875"	6.5	SURFACE	8643'
7"	23	SURFACE	8767'				
5"	18	8742'	8957'				
3.5"	8.81	8926'	9060'				

STR.	PIPE DIA.	PERFORATIONS
A	7"	WSO: 8730'
		8664'-8668', 8692'-8696'.
	5"	8763'-8957'.
	3.5"	8931'-9058'.
		PACKERS: 8636'-8640'.
		GAS LIFT MANDRELS: 8528'-8532'.
		SLIDING SLEEVES: 8568'-8572'.
		NO-GO: 8607'.

TOOL DIAGRAM
COLLAR LOCATOR AT 2.0'
TEMPERATURE TOOL AT 5.0'
AUDIO DETECTOR AT 8.0'

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ	COMMENTS
100	5.20	4.50	4.30	3.00	
200	5.40	4.60	4.30	2.90	
450	4.60	4.40	4.20	2.90	
700	4.70	4.50	4.30	3.10	
720	4.60	4.40	4.20	2.90	
740	4.70	4.40	4.20	2.90	
760	4.90	4.40	4.20	2.90	
780	5.30	4.70	4.40	3.00	
800	4.90	4.50	4.20	2.90	
820	5.20	4.50	4.30	2.90	
840	5.20	4.60	4.30	2.90	
860	5.70	4.90	4.60	3.00	
880	6.60	5.10	4.60	3.00	
900	6.20	5.00	4.80	3.10	
920	5.80	5.20	5.00	3.60	COMING OUT OF FLUID LEVEL
940	5.10	4.80	4.60	3.40	
960	4.60	4.50	4.30	3.00	
980	5.70	4.80	4.50	3.10	
1000	5.30	4.80	4.60	3.20	
1020	5.20	4.40	4.20	3.00	
1040	5.30	4.50	4.40	3.10	
1060	6.00	4.50	4.30	3.10	
1080	5.80	4.50	4.30	3.10	
1100	7.10	4.70	4.50	3.20	
1200	8.10	5.00	4.70	3.30	
1450	7.90	4.40	4.20	3.00	
1700	8.00	4.50	4.30	3.10	
1720	7.90	4.50	4.30	3.20	
1740	8.50	4.60	4.40	3.20	
1760	7.90	4.60	4.40	3.30	
1780	8.10	4.50	4.30	3.10	
1800	8.00	4.50	4.40	3.20	
1820	7.90	4.60	4.40	3.20	
1840	8.60	4.50	4.30	3.10	
1860	7.60	4.50	4.30	3.10	
1880	8.30	4.60	4.40	3.10	
1900	8.00	4.50	4.30	3.10	
1920	8.20	4.70	4.40	3.20	
1940	8.10	4.50	4.30	3.20	
1960	8.10	4.40	4.30	3.00	
1980	7.90	4.50	4.20	2.90	
2000	7.70	4.50	4.30	3.10	
2150	9.20	4.60	4.30	3.10	
2300	8.50	4.50	4.30	3.10	
2320	8.00	4.50	4.30	3.00	
2340	8.10	4.40	4.30	3.10	
2360	8.60	4.40	4.20	3.00	
2380	8.70	4.50	4.30	3.10	
2400	7.70	4.40	4.20	3.00	
2420	8.20	4.40	4.20	3.00	
2440	8.00	4.40	4.30	3.10	
2460	8.00	4.30	4.20	2.90	
2480	8.90	4.50	4.30	3.10	
2500	8.30	4.60	4.30	3.10	
2520	7.90	4.30	4.20	2.90	
2540	8.10	4.50	4.30	3.10	
2560	8.10	4.40	4.20	3.00	
2580	9.30	4.40	4.20	3.00	
2600	8.60	3.70	3.00	2.50	
2850	9.80	4.40	3.20	2.50	
3100	10.10	4.10	3.20	2.60	
3350	10.80	5.20	3.40	2.50	
3600	11.30	4.40	3.50	2.80	
3850	10.60	4.30	3.30	2.60	
4100	12.40	3.80	3.10	2.60	
4350	12.30	4.50	3.30	2.60	
4600	11.40	3.70	3.00	2.50	
4850	11.50	3.70	3.00	2.50	
5100	12.10	4.30	3.30	2.60	
5350	12.00	3.70	3.10	2.50	
5600	11.80	3.90	3.20	2.60	
5850	13.10	3.70	3.00	2.50	
6100	12.50	3.70	3.00	2.50	
6120	11.90	3.70	3.10	2.60	
6140	12.60	3.60	3.00	2.50	
6160	13.10	3.80	3.10	2.60	
6180	14.00	3.80	3.10	2.60	
6200	15.60	3.70	3.00	2.50	
6220	15.80	3.70	3.00	2.60	
6240	15.50	3.60	3.00	2.60	
6260	15.20	3.80	3.10	2.60	
6280	15.30	3.90	3.10	2.60	
6300	15.50	3.90	3.10	2.60	
6320	14.20	3.90	3.10	2.60	
6340	15.50	3.80	3.10	2.60	
6360	15.40	3.80	3.10	2.60	
6380	14.90	3.70	3.10	2.60	
6400	14.90	4.00	3.20	2.60	
6430	14.10	4.00	3.20	2.60	
6680	16.60	4.00	3.20	2.70	
6930	16.70	4.30	3.40	2.70	
7180	18.60	4.50	3.40	2.70	
7430	18.30	3.80	3.10	2.60	
7680	17.90	5.00	3.40	2.70	
7930	20.30	4.10	3.30	2.70	
8180	26.00	5.00	3.70	2.80	
8430	28.00	4.00	3.20	2.60	
8445	28.90	4.10	3.30	2.70	
8455	28.80	3.90	3.30	2.70	
8465	28.40	4.00	3.30	2.70	
8475	27.70	4.00	3.30	2.60	
8485	26.00	4.00	3.30	2.60	
8495	28.00	4.00	3.20	2.60	
8505	24.40	4.00	3.30	2.70	
8515	19.70	3.90	3.20	2.70	
8525	37.10	4.10	3.30	2.70	
8535	24.00	4.10	3.30	2.60	
8545	24.70	4.00	3.30	2.70	
8555	21.70	4.00	3.30	2.70	
8565	69.10	4.10	3.40	2.70	
8575	66.40	4.40	3.50	2.80	
8585	49.30	5.40	4.80	3.20	

1480 COLLAR LOCATOR 2020
60 TEMPERATURE [DEG F] 80
0.02 AUDIO DETECTION LOG (MV) 200
-2 DIFFERENTIAL TEMPERATURE [DEG F] 2